

#3

SEQUENCE LISTING



<110> Aventis Pharma Deutschland GmbH
<120> Process for identifying substances which modulate the activity of hyperpolarization-activated cation channels

<130> AVE D-2000/A006

<140> 10006309.8

<141> 2000-02-12

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<170> PatentIn Ver. 2.1

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<213> Homo sapiens

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Gly Pro Glu Gly Pro Ala Arg Gly Pro Lys Val Ser Phe Ser Cys Arg
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APR 10 2002

TECH CENTER 1600/2900

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<211> 863

<212> PRT

<213> Murinae gen. sp.

<400> 5

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Gln Pro Gln Pro Pro Pro Ala Pro Pro Pro Asn Pro Thr Thr Pro Ser
35 40 45

His Pro Glu Ser Ala Asp Glu Pro Gly Pro Arg Ala Arg Leu Cys Ser
50 55 60

Arg Asp Ser Ala Cys Thr Pro Gly Ala Ala Lys Gly Gly Ala Asn Gly
65 70 75 80

Glu Cys Gly Arg Gly Glu Pro Gln Cys Ser Pro Glu Gly Pro Ala Arg
85 90 95

Gly Pro Lys Val Ser Phe Ser Cys Arg Gly Ala Ala Ser Gly Pro Ser
100 105 110

Ala Ala Glu Glu Ala Gly Ser Glu Glu Ala Gly Pro Ala Gly Glu Pro
115 120 125

Arg Gly Ser Gln Ala Ser Phe Leu Gln Arg Gln Phe Gly Ala Leu Leu
130 135 140

Gln Pro Gly Val Asn Lys Phe Ser Leu Arg Met Phe Gly Ser Gln Lys
145 150 155 160

Ala Val Glu Arg Glu Gln Glu Arg Val Lys Ser Ala Gly Ala Trp Ile
165 170 175

Ile	His	Pro	Tyr	Ser	Asp	Phe	Arg	Phe	Tyr	Trp	Asp	Phe	Thr	Met	Leu	180	185	190	
Leu	Phe	Met	Val	Gly	Asn	Leu	Ile	Ile	Ile	Pro	Val	Gly	Ile	Thr	Phe	195	200	205	
Phe	Lys	Asp	Glu	Thr	Thr	Ala	Pro	Trp	Ile	Val	Phe	Asn	Val	Val	Ser	210	215	220	
Asp	Thr	Phe	Phe	Leu	Met	Asp	Leu	Val	Leu	Asn	Phe	Arg	Thr	Gly	Ile	225	230	235	240
Val	Ile	Glu	Asp	Asn	Thr	Glu	Ile	Ile	Leu	Asp	Pro	Glu	Lys	Ile	Lys	245	250	255	
Lys	Lys	Tyr	Leu	Arg	Thr	Trp	Phe	Val	Val	Asp	Phe	Val	Ser	Ser	Ile	260	265	270	
Pro	Val	Asp	Tyr	Ile	Phe	Leu	Ile	Val	Glu	Lys	Gly	Ile	Asp	Ser	Glu	275	280	285	
Val	Tyr	Lys	Thr	Ala	Arg	Ala	Leu	Arg	Ile	Val	Arg	Phe	Thr	Lys	Ile	290	295	300	
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His	Gln	Trp	Glu	Glu	Ile	Phe	His	Met	Thr	Tyr	Asp	Leu	Ala	Ser	Ala	325	330	335	
Val	Met	Arg	Ile	Cys	Asn	Leu	Ile	Ser	Met	Met	Leu	Leu	Leu	Cys	His	340	345	350	
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Ile	Gly	Tyr	Gly	Arg	Gln	Ala	Pro	Glu	Ser	Met	Thr	Asp	Ile	Trp	Leu	405	410	415	
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 465 470 475 480
 Tyr Gln Gly Lys Met Phe Asp Glu Asp Ser Ile Leu Gly Glu Leu Asn
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 Gly Pro Leu Arg Glu Glu Ile Val Asn Phe Asn Cys Arg Lys Leu Val
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 Ile Arg Glu Gly Thr Ile Gly Lys Lys Met Tyr Phe Ile Gln His Gly
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 Gly Ser Tyr Phe Gly Glu Ile Cys Leu Leu Thr Arg Gly Arg Arg Thr
 580 585 590
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 595 600 605
 Asp Asn Phe Asn Glu Val Leu Glu Glu Tyr Pro Met Met Arg Arg Ala
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 Phe Glu Thr Val Ala Ile Asp Arg Leu Asp Arg Ile Gly Lys Lys Asn
 625 630 635 640
 Ser Ile Leu Leu His Lys Val Gln His Asp Leu Ser Ser Gly Val Phe
 645 650 655
 Asn Asn Gln Glu Asn Ala Ile Ile Gln Glu Ile Val Lys Tyr Asp Arg
 660 665 670
 Glu Met Val Gln Gln Ala Glu Leu Gly Gln Arg Val Gly Leu Phe Pro
 675 680 685

Pro Pro Pro Pro Pro Gln Val Thr Ser Ala Ile Ala Thr Leu Gln Gln
 690 695 700

Ala Val Ala Met Ser Phe Cys Pro Gln Val Ala Arg Pro Leu Val Gly
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Pro Leu Pro Pro Ala Ala Ser Pro Gly Pro Pro Ala Ala Ser Pro Pro
 740 745 750

Ala Ala Pro Ser Ser Pro Arg Ala Pro Arg Thr Ser Pro Tyr Gly Val
 755 760 765

Pro Gly Ser Pro Ala Thr Arg Val Gly Pro Ala Leu Pro Ala Arg Arg
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Leu Ser Arg Ala Ser Arg Pro Leu Ser Ala Ser Gln Pro Ser Leu Pro
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His Gly Val Pro Ala Pro Ser Pro Ala Ala Ser Ala Arg Pro Ala Ser
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Ser Ser Thr Pro Arg Leu Gly Pro Ala Pro Thr Ala Arg Thr Ala Ala
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Pro Ser Pro Asp Arg Arg Asp Ser Ala Ser Pro Gly Ala Ala Ser Gly
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<211> 3102

<212> DNA

<213> Murinae gen. sp.

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<211> 17
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<213> Artificial Sequence

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<210> 8
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25